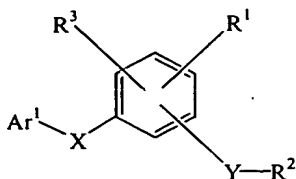


# WHAT IS CLAIMED IS:

1. A compound having the formula (I):



wherein

Ar<sup>1</sup> is a member selected from the group consisting of substituted or unsubstituted 2-benzothiazolyl and substituted or unsubstituted quinolinyl;

X is selected from the group consisting of -O-, -C(O)-, -CH(R<sup>10</sup>)-, -N(R<sup>11</sup>)-, and -S(O)<sub>k</sub>-;

wherein

R<sup>10</sup> is a member selected from the group consisting of hydrogen, cyano and (C<sub>1</sub>-C<sub>4</sub>)alkyl;

R<sup>11</sup> is a member selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl, and the subscript k is an integer of from 0 to 2; with the proviso that when Ar<sup>1</sup> is a substituted or unsubstituted 2-benzothiazolyl, then X is other than -S(O)<sub>k</sub>-;

Y is -N(R<sup>12</sup>)-S(O)<sub>2</sub>-;

wherein

R<sup>12</sup> is a member selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl;

R<sup>1</sup> is a member selected from the group consisting of hydrogen, (C<sub>2</sub>-C<sub>8</sub>)heteroalkyl, halogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>1</sub>-C<sub>8</sub>)alkoxy, -C(O)R<sup>14</sup>, -CO<sub>2</sub>R<sup>14</sup>, -C(O)NR<sup>15</sup>R<sup>16</sup>, -S(O)<sub>p</sub>-R<sup>14</sup>, -S(O)<sub>q</sub>-NR<sup>15</sup>R<sup>16</sup>, -O-C(O)-R<sup>17</sup> and -N(R<sup>14</sup>)-C(O)-R<sup>17</sup>;

wherein

R<sup>14</sup> is a member selected from the group consisting of hydrogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>2</sub>-C<sub>8</sub>)heteroalkyl, aryl and aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl;

R<sup>15</sup> and R<sup>16</sup> are members independently selected from the group consisting of hydrogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>2</sub>-C<sub>8</sub>)heteroalkyl, aryl, and aryl(C<sub>1</sub>-

C<sub>4</sub>)alkyl, or taken together with the nitrogen to which each is attached form a 5-, 6- or 7-membered ring;  
R<sup>17</sup> is a member selected from the group consisting of (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>2</sub>-C<sub>8</sub>)heteroalkyl, aryl and aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl;  
the subscript p is an integer of from 0 to 3; and  
the subscript q is an integer of from 1 to 2;  
R<sup>2</sup> is substituted or unsubstituted aryl; and  
R<sup>3</sup> is a member selected from the group consisting of halogen and (C<sub>1</sub>-C<sub>8</sub>)alkoxy.

2. A compound of claim 1, wherein

Ar<sup>1</sup> is a substituted or unsubstituted 2-benzothiazolyl;

X is selected from the group consisting of -O- and -N(R<sup>11</sup>)-;

Y is -NH-S(O)<sub>2</sub>-;

R<sup>1</sup> is a member selected from the group consisting of hydrogen, halogen, (C<sub>1</sub>-C<sub>8</sub>)alkoxy, (C<sub>1</sub>-C<sub>8</sub>)alkyl, -CO<sub>2</sub>R<sup>14</sup> and -C(O)NR<sup>15</sup>R<sup>16</sup>;

wherein

R<sup>14</sup> is a member selected from the group consisting of hydrogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>2</sub>-C<sub>8</sub>)heteroalkyl, aryl and aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl;

R<sup>15</sup> and R<sup>16</sup> are members independently selected from the group consisting of hydrogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>2</sub>-C<sub>8</sub>)heteroalkyl, aryl, and aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, or taken together with the nitrogen to which each is attached form a 5-, 6- or 7-membered ring;

R<sup>2</sup> is substituted or unsubstituted phenyl; and

R<sup>3</sup> is a member selected from the group consisting of halogen and (C<sub>1</sub>-C<sub>4</sub>)alkoxy.

3. A compound of claim 2, wherein R<sup>1</sup> is selected from the group consisting of halogen, cyano, (C<sub>1</sub>-C<sub>8</sub>)alkoxy, (C<sub>1</sub>-C<sub>8</sub>)alkyl, -CO<sub>2</sub>R<sup>14</sup> and -C(O)NR<sup>15</sup>R<sup>16</sup> wherein R<sup>14</sup> is (C<sub>1</sub>-C<sub>8</sub>)alkyl; R<sup>15</sup> and R<sup>16</sup> are independently selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl, or taken together with the nitrogen to which each is attached form a 5- or 6-membered ring.

4. A compound of claim 2, wherein R<sup>1</sup> is selected from the group consisting of halogen, cyano, (C<sub>1</sub>-C<sub>8</sub>)alkoxy and (C<sub>1</sub>-C<sub>8</sub>)alkyl.

5. A compound of claim 2, wherein X is selected from the group consisting of -O- and -NH-.

6. A compound of claim 2, wherein R<sup>2</sup> is substituted phenyl having from 1 to 3 substituents independently selected from the group consisting of halogen, cyano, nitro, -OCF<sub>3</sub>, -OH, -O(C<sub>1</sub>-C<sub>6</sub>)alkyl, -CF<sub>3</sub>, (C<sub>1</sub>-C<sub>8</sub>)alkyl.

7. A compound of claim 2, wherein

X is selected from the group consisting of -O- and -NH-;

R<sup>1</sup> is a member selected from the group consisting of hydrogen, halogen, cyano, (C<sub>1</sub>-C<sub>8</sub>)alkoxy, (C<sub>1</sub>-C<sub>8</sub>)alkyl, -CO<sub>2</sub>R<sup>14</sup> and -C(O)NR<sup>15</sup>R<sup>16</sup>;

wherein

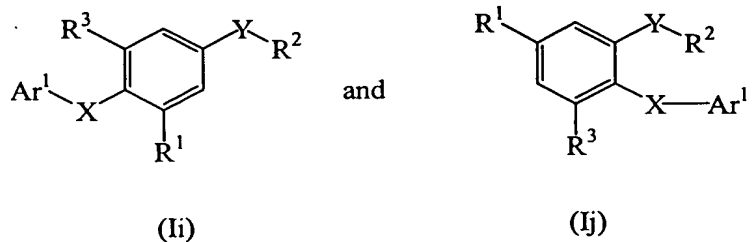
R<sup>14</sup> is a member selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl;

R<sup>15</sup> and R<sup>16</sup> are members independently selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl, or taken together with the nitrogen to which each is attached form a 5-, 6- or 7-membered ring;

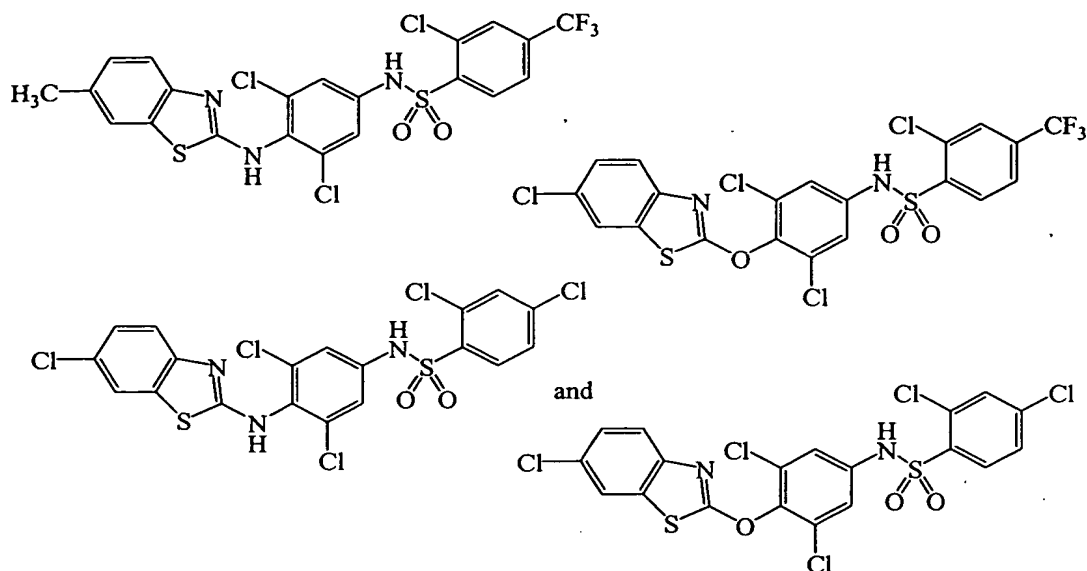
R<sup>2</sup> is substituted phenyl having from 1 to 3 substituents independently selected from the group consisting of halogen, cyano, nitro, -OCF<sub>3</sub>, -OH, -O(C<sub>1</sub>-C<sub>6</sub>)alkyl, -CF<sub>3</sub>, (C<sub>1</sub>-C<sub>8</sub>)alkyl; and

R<sup>3</sup> is a member selected from the group consisting of halogen and (C<sub>1</sub>-C<sub>4</sub>)alkoxy.

8. A compound of claim 2, represented by a formula selected from the group consisting of



9. A compound of claim 2, selected from the group consisting of



10. A compound of claim 1, wherein

Ar<sup>1</sup> is a substituted or unsubstituted quinolinyl group;

X is selected from the group consisting of -O-, -S- and -N(R<sup>11</sup>)-;

wherein R<sup>12</sup> is selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl;

R<sup>1</sup> is a member selected from the group consisting of hydrogen, halogen, cyano, (C<sub>1</sub>-C<sub>8</sub>)alkoxy, (C<sub>1</sub>-C<sub>8</sub>)alkyl, -CO<sub>2</sub>R<sup>14</sup> and -C(O)NR<sup>15</sup>R<sup>16</sup>;

wherein

R<sup>14</sup> is a member selected from the group consisting of hydrogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>1</sub>-C<sub>8</sub>)heteroalkyl, aryl and aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl;

R<sup>15</sup> and R<sup>16</sup> are members independently selected from the group consisting of hydrogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>2</sub>-C<sub>8</sub>)heteroalkyl, aryl, and aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, or taken together with the nitrogen to which each is attached form a 5-, 6- or 7-membered ring;

R<sup>2</sup> is substituted or unsubstituted phenyl; and

R<sup>3</sup> is a member selected from the group consisting of halogen and (C<sub>1</sub>-C<sub>8</sub>)alkoxy.

11. A compound of claim 10, wherein R<sup>1</sup> is selected from the group

consisting of halogen, cyano, (C<sub>1</sub>-C<sub>8</sub>)alkoxy, (C<sub>1</sub>-C<sub>8</sub>)alkyl, -CO<sub>2</sub>R<sup>14</sup> and -C(O)NR<sup>15</sup>R<sup>16</sup>

wherein R<sup>14</sup> is (C<sub>1</sub>-C<sub>8</sub>)alkyl; R<sup>15</sup> and R<sup>16</sup> are independently selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl, or taken together with the nitrogen to which each is attached form a 5- or 6-membered ring.

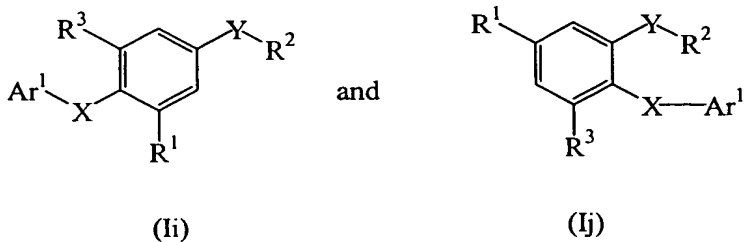
12. A compound of claim 10, wherein R<sup>1</sup> is selected from the group consisting of halogen, cyano, (C<sub>1</sub>-C<sub>8</sub>)alkoxy and (C<sub>1</sub>-C<sub>8</sub>)alkyl.

13. A compound of claim 10, wherein X is selected from the group consisting of -O-, -S- and -NH-.

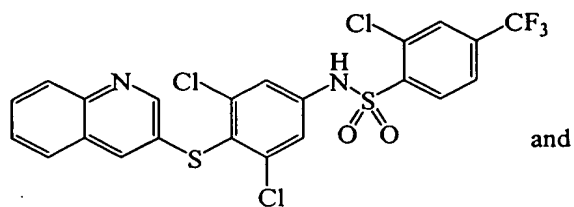
14. A compound of claim 10, wherein R<sup>2</sup> is substituted phenyl having from 1 to 3 substituents independently selected from the group consisting of halogen, cyano, nitro, -OCF<sub>3</sub>, -OH, -O(C<sub>1</sub>-C<sub>6</sub>)alkyl, -CF<sub>3</sub>, (C<sub>1</sub>-C<sub>8</sub>)alkyl.

15. A compound of claim 10, wherein  
X is selected from the group consisting of -O-, -S- and -NH-;  
R<sup>1</sup> is a member selected from the group consisting of hydrogen, halogen, cyano, (C<sub>1</sub>-C<sub>8</sub>)alkoxy, (C<sub>1</sub>-C<sub>8</sub>)alkyl, -CO<sub>2</sub>R<sup>14</sup> and -C(O)NR<sup>15</sup>R<sup>16</sup>;  
wherein  
R<sup>14</sup> is a member selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl;  
R<sup>15</sup> and R<sup>16</sup> are members independently selected from the group consisting of hydrogen and (C<sub>1</sub>-C<sub>8</sub>)alkyl, or taken together with the nitrogen to which each is attached form a 5-, 6- or 7-membered ring;  
R<sup>2</sup> is substituted phenyl having from 1 to 3 substituents independently selected from the group consisting of halogen, cyano, nitro, -OCF<sub>3</sub>, -OH, -O(C<sub>1</sub>-C<sub>6</sub>)alkyl, -CF<sub>3</sub>, (C<sub>1</sub>-C<sub>8</sub>)alkyl; and  
R<sup>3</sup> is a member selected from the group consisting of halogen and (C<sub>1</sub>-C<sub>4</sub>)alkoxy.

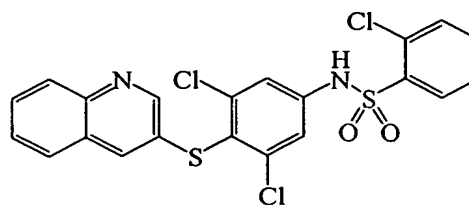
16. A compound of claim 10, represented by a formula selected from the group consisting of



17. A compound of claim 10, selected from the group consisting of

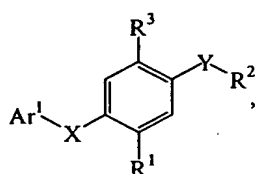


and

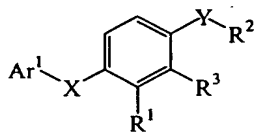


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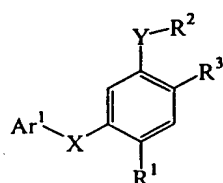
1 18. A compound of claim 1, wherein said compound is represented by a  
2 formula selected from the group consisting of



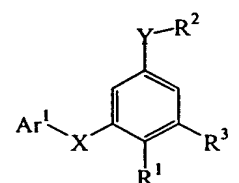
(Ia)



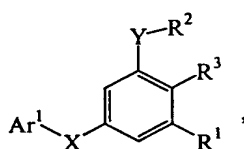
(Ib)



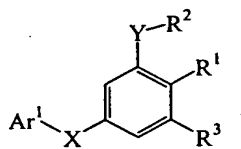
(Ic)



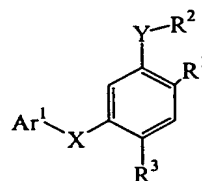
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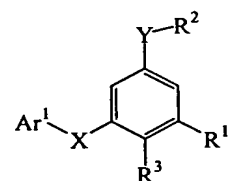
(Ie)



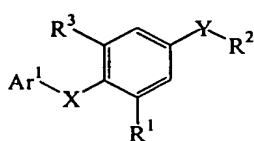
(If)



(Ig)

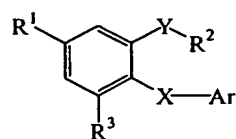


(Ih)



(Ii)

and



(Ij)

3

1 19. A composition comprising a pharmaceutically acceptable carrier or  
2 excipient and a compound of Claims 1-18.

1 20. A method for treating or preventing a metabolic disorder or an  
2 inflammatory condition, comprising  
3 administering to a subject in need thereof a therapeutically effective amount of  
4 a compound of Claims 1-18.

- 1                    21.    A method in accordance with Claim 20, wherein said subject is a  
2    human.
- 1                    22.    A method in accordance with claim 20, wherein said administering is  
2    oral.
- 1                    23.    A method in accordance with claim 20, wherein said administering is  
2    parenteral.
- 1                    24.    A method in accordance with claim 20, wherein said administering is  
2    topical.
- 1                    25     A method in accordance with claim 20, wherein said metabolic  
2    disorder is selected from the group consisting of diabetes, obesity, hypercholesterolemia,  
3    hyperlipidemia, dyslipidemia, hypertriglyceridemia, hyperglycemia, insulin resistance and  
4    hyperinsulinemia.
- 1                    26.    A method in accordance with claim 20, wherein said inflammatory  
2    condition is selected from the group consisting of rheumatoid arthritis and atherosclerosis.
- 1                    27.    A method in accordance with claim 20, wherein said metabolic  
2    disorder or inflammatory condition is mediated by PPAR $\gamma$ .
- 1                    28.    A method for treating or preventing a condition or disorder mediated  
2    by PPAR $\gamma$ , comprising  
3                    administering to a subject in need thereof a therapeutically effective amount of  
4    a compound of Claims 1-18.
- 1                    29.    A method in accordance with Claim 28, wherein said subject is a  
2    human.
- 1                    30.    A method in accordance with claim 28, wherein said administering is  
2    oral.
- 1                    31.    A method in accordance with claim 28, wherein said administering is  
2    parenteral.

1                   32.     A method in accordance with claim 28, wherein said administering is  
2 topical.

1                   33.     A method in accordance with claim 28, wherein said condition or  
2 disorder is a metabolic disorder or an inflammatory condition.

1                   34.     A method in accordance with claim 33, wherein said metabolic  
2 disorder is selected from the group consisting of diabetes, obesity, hypercholesterolemia,  
3 hyperlipidemia, dyslipidemia, hypertriglyceridemia, hyperglycemia, insulin resistance and  
4 hyperinsulinemia.

1                   35.     A method in accordance with claim 33, wherein said inflammatory  
2 condition is selected from the group consisting of rheumatoid arthritis and atherosclerosis. .

1                   36.     A method for modulating PPAR $\gamma$ , comprising  
2 contacting a cell with a compound of Claims 1-18.

1                   37.     The method of Claim 36, wherein said compound is a PPAR $\gamma$   
2 antagonist.

1                   38.     The method of Claim 36, wherein said compound is a PPAR $\gamma$  agonist.